

## Active Fiber Loss Monitor and Method

### **ABSTRACT OF THE INVENTION**

A system (10) for detecting a small fiber loss (102) on a fiber (104) includes a first channel (106) having a first wavelength coupled to the fiber (104). A second channel (108) having a second wavelength different than the first wavelength is also coupled to the fiber (104). At least one photodetector circuitry (110) is coupled to the fiber (104) at a monitor point (112) for detecting a change in the power ratio between the first and second channels for detecting the small fiber communication loss (102) at any location along the fiber (104).